Appendix A References

A-1. Required Publications

TM 5-809-1

Structural Design Criteria for Loads

ER 5-7-1 (FR)

Project Management

ER 200-2-2

Procedures for Implementing NEPA

ER 1105-2-100

Guidance for Conducting Civil Works Planning Studies

ER 1110-2-100

Periodic Inspection and Continuing Evaluation of Completed Civil Works Structures

ER 1110-2-1150

Engineering and Design for Civil Works Projects

ER 1110-2-1200

Plans and Specifications for Civil Works Projects

ER 1110-2-1404

Hydraulic Design of Deep Draft Navigation Projects

ER 1110-2-1457

Hydraulic Design of Small Boat Navigation

ER 1110-2-1458

Hydraulic Design of Shallow Draft Navigation Projects

ER 1110-2-1806

Earthquake Design and Analysis for Corps of Engineers Projects

ER 1110-2-8152

Planning and Design of Temporary Cofferdams and Braced Excavations

ER 1130-2-306

Navigation Lights, Aids to Navigation, Charts, and Related Data Policy, Practices and Procedures

EP 310-1-6A and 6B

Sign Standards Manual

EP 1165-2-1

Digest of Water Resources Policies

EM 385-1-1

Safety and Health Requirements Manual

EM 1110-1-1802

Geophysical Exploration

EM 1110-1-1804

Geotechnical Investigations

EM 1110-1-1904

Settlement Analysis

EM 1110-1-1905

Bearing Capacity of Soils

EM 1110-2-38

Environmental Quality in Design of Civil Works Projects

EM 1110-2-301

Guidelines for Landscape Planting at Floodwalls, Levees, and Embankment Dams

EM 1110-2-1202

Environmental Engineering for Deep-Draft Navigation Projects

EM 1110-2-1204

Environmental Engineering for Coastal Shore Protection

EM 1110-2-1205

Environmental Engineering for Local Flood Control Channels

EM 1110-2-1601

Hydraulic Design of Flood Control Channels

EM 1110-2-1604

Hydraulic Design of Navigation Locks

EM 1110-2-1605

Hydraulic Design of Navigation Dams

EM 1110-2-1610

Hydraulic Design of Lock Culvert Valves

EM 1110-2-1612

Ice Engineering

EM 1110-2-2602

30 Sep 95

EM 1110-2-2104

Strength Design for Reinforced-Concrete Hydraulic Structures

EM 1110-2-2200

Gravity Dam Design

EM 1110-2-2502

Retaining and Flood Walls

EM 1110-2-2503

Design of Sheet Pile Cellular Structures Cofferdams and Retaining Structures

EM 1110-2-2608

Navigation Locks - Fire Protection Provisions

EM 1110-2-2703

Lock Gates and Operating Equipment

EM 1110-2-2906

Design of Pile Foundations

EM 1110-2-4300

Instrumentation for Concrete Structures

ETL 1110-2-256

Sliding Stability for Concrete Structures

ETL 1110-2-310

Stability Criteria for Existing Concrete Navigation Structures on Rock Foundations

ETL 1110-2-321

Reliability Assessment of Navigation Structures, Stability of Existing Gravity Structures

ETL 1110-2-338

Barge Impact Analysis

ETL 1110-2-355

Structural Analysis and Design of U-Frame Lock Monoliths

ETL 1110-2-365

Nonlinear Incremental Structural Analysis of Massive Concrete Structures

ETL 1110-2-532

Reliability Assessment of Navigation Structures

ETL 1110-8-13 (FR)

Structural Engineering Responsibilities for Civil Works Projects

Computer Programs

Available from U.S. Army Engineer Waterways Experiment Station, Engineering Computer Programs Library, 3909 Halls Ferry Road, Vicksburg, MS 39180-6199.

CFRAME

Interactive Graphic Plane Frame Analysis

CSLIDE

Sliding Stability Analysis of Concrete Structures

CWFRAM

Analysis of Two-Dimensional U-Frame Structure

CBEAR

Bearing Capacity Analysis of Shallow Foundations

CPGA

Pile Group Analysis Program - Rigid Base Method

DSAD

Interactive Graphic Three-dimensional Stability Analysis/ Design Program

SOILSTRUCT

Soil-Structure Interaction Program

A-2. Related Publications

Note: Related publications used in this EM are available on interlibrary loan from the Research Library, ATTN: CEWES-IM-MI-R, U.S. Army Engineer Waterways Experiment Station, 3909 Halls Ferry Road, Vicksburg, MS 39180-6199.

American Association of State Highway and Transportation Officials (AASHTO)

American Association of State Highway and Transportation Officials (AASHTO). "Standard Specifications for Highway Bridges."

American Concrete Institute (ACI) 1981

American Concrete Institute (ACI). 1981. "Control of Cracking in Concrete Structures," ACI 224 R-80.

American Society for Testing Materials (ASTM) 1990

American Society for Testing Materials (ASTM). 1990. "Standard Test Method for Classification of Soils for Engineering Purposes," *Book of ASTM Standards*.

Bloor 1951

Bloor, R. L. 1951. "Lock Sizes for Inland Waterways," *Transections of the American Society of Civil Engineers*, Vol 116.

Clough and Duncan 1969

Clough, G. W., and Duncan, J. M. 1969. "Finite Element Analysis of Port Allen and Old River Locks," Contract Report S-69-6, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Coastal Engineering Research Center 1984

Coastal Engineering Research Center. 1984. Shore Protection Manual (SPM), Vol 11.

Davis 1989

Davis, J. P. 1989. "Hydraulic Design of Navigation Locks," Miscellaneous Paper HL-89-5, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Duncan, Clough, and Ebeling 1990

Duncan, J. M., Clough, G. W., and Ebeling, R. M. 1990. "Behavior and Design of Gravity Earth Retaining Structures," American Society of Civil Engineers conference on the *Design and Performance of Earth Retaining Structures*, Cornell, NY.

Ebeling 1990

Ebeling, R. M. 1990. "Review of Finite Element Procedures for Earth Retaining Structures," Miscellaneous Paper ITL-90-5, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Ebeling et al. 1992 (Mar)

Ebeling, R. M., Clough, G. W., Duncan, J. M., and Brandon, T. L. 1992 (Mar). "Methods of Evaluating the Stability and Safety of Gravity Earth Retaining Structures Founded on Rock," Technical Report REMR CS-29, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Ebeling, Duncan, and Clough 1990 (Oct)

Ebeling, R. M., Duncan, J. M., and Clough, G. W. 1990 (Oct). "Method of Evaluating the Stability and Safety of Gravity Earth Retaining Structures Founded on Rock - Phase 2 Study" Technical Report ITL-90-7, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Ebeling et al. 1992 (Oct)

Ebeling, R. M., Mosher, R. M., Abraham, K., and Peters, J. F. 1992 (Oct). "Soil Structure Interaction Study of Red River Lock and Dam No. 1 Subjected to Sediment Loading," Technical Report ITI-93-2, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Ebeling, Peters, and Clough 1992 (May)

Ebeling, R. M., Peters, J. F., and Clough, G. W. 1992 (May). "Users Guide for the Incremental Construction, Soil-Structure Interaction Program SOILSTRUCT, Technical Report ITL-90-6, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Filz and Duncan 1992 (Apr)

Filz, G. M., and Duncan, J. M. 1992 (Apr). "An Experimental and Analytic Study of Earth Loads on Rigid Retaining Walls," U.S. Army Engineer Waterways Experiment Station, Virginia Polytechnic Institute and State University, Blacksburg, VA.

Hilmer 1986

Hilmer, K. 1986. "Evaluation of a Ten-Year Measuring Program at the Eibach Lock."

Institute for Water Resources 1988

Institute for Water Resources. 1988. IWR 88-R-7.

Institute for Water Resources 1992

Institute for Water Resources. 1992. "Guidelines for Risk and Uncertainty Analysis in Water Resources Planning," IWR 92-R-1.

A-3. Bibliography

American Concrete Institute (ACI) 1983

American Concrete Institute (ACI). 1983. "Building Code Requirements for Reinforced Concrete," ACI 318-83.

American Institute of Steel Construction (AISC) 1980 American Institute of Steel Construction (AISC). 1980.

"Manual of Steel Construction," 8th edition.

American Welding Society (AWS) 1988

American Welding Society (AWS). 1988. "Structural Welding Code," AWS D1-1-88.

Ferguson 1981

Ferguson, P. M. 1981. Reinforced Concrete Fundamentals, 4th edition, Wiley, New York.

EM 1110-2-2602 30 Sep 95

Timoshenko and Woinowsky-Krieger 1959

Timoshenko and Woinowsky-Krieger. 1959. *Theory of Plates and Shells*, 2nd edition, McGraw-Hill, New York.